



LAND & WATER CONSERVATION DEPARTMENT "LWCD"
PHONE (920) 906-4680

Agricultural Service Center
W6529 Forest Ave., Fond du Lac, WI 54937

FOND DU LAC COUNTY LIVESTOCK MANURE MANAGEMENT – PROJECT OVERVIEW

INITIAL CONSIDERATION

Your consideration for the installation of a livestock manure storage facility may have you wondering what is required and how you begin the process to install such a component. Keep in mind that all manure storage facilities *typically* revolve around three objectives and two ordinances:

OBJECTIVES:

- ***ENVIRONMENTALLY SOUND***- Preventing the escape of harmful elements through the careful planning & construction of a manure storage facility, while properly land applying the animal effluent.
- ***SOCIALLY ACCEPTABLE*** - Locating the manure storage facility in an area good for access, transfer, and future expansion yet taking into consideration odor, overflow, mud tracking, emergency response, etc for the location.
- ***ECONOMICALLY CONSCIOUS*** – Using only those materials / items / tests, etc that are needed to meet all standards and specifications shall be required. Should you wish to exceed those requirements, the sky is the limit.

ORDINANCES:

- ***LIVESTOCK MANURE MANAGEMENT***- The purpose of this article is to assure the safe handling and spreading of manure as well as to regulate the location, design, construction, installation, alteration, operation, and maintenance of all new livestock manure storage facilities. Also regulate the closure of livestock manure storage facilities in order to prevent water pollution, protect the health and safety of residents and transients, prevent the spread of disease, and promote the prosperity and general welfare of the citizens of Fond du Lac County. The Fond du Lac County Board of supervisors adopted an Animal Manure Storage Ordinance on April 23, 1996, with revisions to the Ordinance being adopted on June 30, 2004 & June 15, 2010.
- ***EROSION CONTROL & STORMWATER MANAGEMENT***- The purpose of this chapter is to set forth requirements for land development and land disturbing activities aimed to minimize sedimentation, water pollution, flooding and related property and environmental damage caused by soil erosion and uncontrolled storm water runoff during and after construction, in order to diminish the threats to public health, safety, welfare, and the natural resources of Fond du Lac County. The Fond du Lac County Board of supervisors adopted an Erosion Control & Stormwater Management Ordinance on June 18th, 2002, with a revision on April 21st, 2009.



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With the above information in mind, all manure storage facilities constructed in Fond du Lac County require the following steps; site investigation, construction planning, plan review, permit issuance, construction inspection, and finally as-built approval. How these items are or could be managed is listed in sequential order below to help you successfully complete the process.

SITE INVESTIGATION:

- *PRELIMINARY DISCUSSION* - Upon initial contact the following information should be gathered; site address, phone numbers, animal numbers, bedding & housing type, rolling herd average, time frame requested for storage and the estimated location of the structure. A site meeting may also want to be scheduled at this time to further discuss the proposed project.
- *SOILS INVESTIGATION* - Typically a backhoe, with a reach capable of 5 FT past the proposed bottom elevation is used to excavate a predetermined amount of holes to allow examination and location of any ground water, bedrock, or a perched water table. Fond du Lac County personnel are required to be on site.
- *SITE LIMITATIONS* - Items such as wells, karst topography, riparian areas, wetlands, rivers, streams, property boundaries, setbacks, etc will need to be discussed and identified if applicable.

CONSTRUCTION PLANNING:

- *DESIGN OPUS* – The proprietor will need to choose who is to provide the plan design and computations. Either a design from a professional engineer licensed in the State of Wisconsin or a Fond du Lac County Technician with proper engineering practitioner certification from the State Department of Agriculture, Trade, & Consumer Protection.
- *PROFESSIONAL ENGINEERED DESIGN* – Reference Fond du Lac County livestock manure management **PROCEDURES FOR INVOLVEMENT BY A PROFESSIONAL ENGINEER.**
- *DESIGN REQUIREMENTS* – Reference Fond du Lac County livestock manure management and/or erosion control and stormwater management **APPLICATIONS** for detailed requirements.
- *DESIGN REMARK* – All stormwater management detention basins shall be designed by a licensed professional engineer with the State of Wisconsin shall provide a plan design if applicable.



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CONSTRUCTION PLAN REVIEW:

- *WRITTEN PLAN REVIEW* – For plans which have been designed by a professional engineer, a written plan review may be prepared documenting any requested changes, additions, or subtractions. If the construction plan is designed in house, another Fond du Lac County Technician or Conservationist and/or Department of Agriculture Trade, and Consumer Protection engineering personnel, at a minimum, will review, comment, and possibly sign off on the design.

PERMIT ISSUANCE:

- *NUTRIENT MANAGEMENT* – If you are applying for a Fond du Lac County Livestock Manure Management Permit, land application of animal effluent shall be managed with an approved nutrient management plan. Please contact the Fond du Lac County Agronomist to further discuss.
- *PRECONSTRUCTION CONFERENCE* – May be held to keep mutual dialog open between all parties to discuss the plan review, inspection plan, construction timeline, and/or any other questions.
- *PERMIT FEE* – Once a construction plan is approved, a nutrient management plan prepared, and a permit fee collected, the permit(s) may be issued. Reference Fond du Lac County livestock manure management **ANIMAL WASTE STORAGE FACILITY APPLICATION** for fee schedule.

CONSTRUCTION INSPECTION:

- *PROJECT INSPECTION* – Fond du Lac County will always perform quality assurance construction inspection. However, if the project is designed by a professional engineer, county personnel will not act on behalf of the designing engineer. Inspection by the engineer or his or her third-party inspector will be required.
- *PROJECT MANAGEMENT* – While Fond du Lac County will be involved with all projects in some form or fashion, we will not act as a general contractor or manage the site projects. We recommend one person from the site act as the main contact to orchestrate all portions of the project.



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AS-BUILT APPROVAL:

- **FINAL PLAN APPROVAL** – If the construction plan was designed by a private professional engineer, within 30 days following completion of the animal manure storage liner and/or the transfer system, a written statement by a professional engineer licensed in the state of Wisconsin shall be submitted to Fond du Lac County, certifying that the installation as constructed meets all current applicable standards and specifications. In addition, the written statement shall identify any deviations from the original plan. Within 90 days after completion of the animal manure storage liner / transfer system, a copy of the inspection report, any supporting documentation, notation of any deviations, and a set of fully "red lined" as-built plans, stamped and signed by a professional engineer with an attesting statement as meeting all applicable standards and specifications shall be submitted to Fond du Lac County. If the plan was designed in house, the plan shall be "red lined" and all construction documentation organized and filed accordingly.
- **CONSTRUCTION CERTIFICATION** – Once the animal waste storage facility is completed, the landowner, contractor(s), and if applicable, professional engineer(s), shall sign the Animal Waste Storage Facility Construction Certification form certifying that the facility was built according to all standards and specifications.

While we understand that the above information by no means outlines every possible situation or concern, we hope that it brings some clarity and format to a possibly new and sometimes perplexing project. If you have any questions, please contact Fond du Lac County Land & Water Conservation Department.

| Name | Title | Email | Phone |
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